10/581190

IAPS Rec'd PCT/PTO 01 JUN 2006

PCT/NO2004/000370 Kjell Arne GAARDEN et al. Attorney Docket No. 03438.0122

AMENDMENTS UNDER PCT ARTICLE 34 (ARTICLE 34 AMENDMENTS)

International Application No. PCT/NO2004/000370

MAIL STOP - PCT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

REQUEST FOR SUBSTITUTION OF REPLACEMENT SHEETS

Please substitute the attached replacement sheets 7-12 of the claims containing the Article 34 Amendments, for sheets 7-9 of the claims in the enclosed as-filed PCT application. It is respectfully requested that the claims in the substitute sheets be examined during examination of the patent application. Claims 1-45 are currently pending.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

Dated: June 1, 2006

Ernest F. Chapman Reg. No. 25,961

EFC/FPD/blc

MPZOREE GECTETU O1 JUN 2006

PCT/NO2004/000370

ANNEXES (AMENDED SHEETS) ATTACHED TO THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT RECEIVED ON FEBRUARY 13, 2006

15

25

3. Feb. 2006 16:27

ONSAGERS AS +47 23327701

IAP20 Rec'd PCVIPTO 01 JUN 2006

AMENDED PATENT CLAIMS 12.FEB. 2006

- A scraping device for a conveyor belt (2) for installation essentially transverse to the longitudinal direction of the conveyor belt (2), which scraping device comprises a supporting structure (3) adapted to hold the scraping device in 5 place across the conveyor belt (2), which scraping device is covering essentially the whole width of the conveyor belt (2) and consisting of a plurality of individual scraping segments (1') each of which consists of a body (7) with a scraping face (4), which scraping face (4) rests against the conveyor belt (2) where the scraping device comprises a number of segments (1') and that the scraping face (4) on each of the segments (1') is elastically connected to the supporting structure (3) and all 10 the segments are covered by a flexible material, characterised in that the scraping device is mounted in a holder (12) where at least an area of the scraping device is fixedly connected to the holder (12) with a fixed connection (17) so that the scraping device can be bent in that there is provided one or more adjusting devices (14, 15, 16) at the underside and/or the upper side of the scraping device which push different parts of the scraping device
 - A scraping device according to claim 1, 2.

against the conveyor belt (2).

- 20 characterised in that the scraping face is directed towards the conveyor belt.
 - A scraping device according to claims 1-2, characterised in that the scraping device is provided with one or more adjusting devices for adapting the scraping device to the curve of the drum over which the conveyor belt runs.
 - A scraping device according to claims 1-3, characterised in that the scraping face (4) is reinforced in the connection between the supporting structure (3) and the scraping face (4).
 - A scraping device according to claims 1-4,
- 30 characterised in that the scraping face (4) on each segment is connected to the supporting structure (3) by a resilient metal spring having a spring constant (k1).
- A scraping device according to claims 1-5, characterised in that the scraping face (4) on each segment is connected to the supporting structure (3) by a fibre-reinforced elastic material 35 having spring constant (k1).

ONSAGERS AS +47 23327701.

Nr. 6655 S. 3/7

8

- 7. A scraping device according to claims 1-6, c h a r a c t e r i s e d i n that the spring constant (k) is selected so that the scraper blades have an almost ideal angle of substantially 90 degrees to the conveyor belt that is to be cleaned.
- 8. A scraping device according to claims 1-7, c h a r a c t e r i s e d i n that two or more of the segments (1') are connected transverse to the scraping device to a reinforcing element having a spring constant (k2).
 - 9. A scraping device according to claims 1-8,
- 10 characterised in that the whole of or parts of the body (7) of the scraper segments (1) are formed of an elastic material so that it forms the elastic attachment for the scraping face.
 - 10. A scraping device according to claims 1-9, character is ed in that the number of segments (1') is greater than five.
- 15 11. A scraping device according to claims 1-9, character is ed in that the number of segments (1') is greater than eight.
 - 12. A scraping device according to claims 1-9, character is ed in that the number of segments (1') is greater than twelve.
 - 13. A scraping device according to one or more of claims 1-12, characterised in that two or more of the segments (1') have different widths.
- 25 14. A scraping device according to claims 1-13, characterised in that the flexible material covering the scraper segments (1') is also an elastic material.
- 15. A scraping device according to claims 1-14,
 c h a r a c t e r i s e d i n that the scraping face (4) is formed of or with a
 30 reinforcing material.
- 16. A scraping device for a conveyor belt (2) for installation essentially transverse to the longitudinal direction of the conveyor belt (2), which scraping device comprises a supporting structure (3) adapted to hold the scraping device in place across the conveyor belt (2), which scraping device is covering essentially the whole width of the conveyor belt (2) and consisting of a plurality of individual

20

5

10

20

13. Feb. 2006 16:27

ONSAGERS AS +47 23327701

Nr. 5551 S. 22 04808864

Nr. 6655

S. 4/7

9

scraping segments (1') each of which consists of a body (7) with a scraping face (4), which scraping face (4) rests against the conveyor belt (2) where the scraping device comprises a number of segments (1') and that the scraping face (4) on each of the segments (1') is elastically connected to the supporting structure (3) and all the segments are covered by a flexible material,

- c h a r a c t o r i s o d i n that the scraping device is mounted in a holder (10, 12) where at least a part of the scraping device can be bent towards or away from the conveyor belt in that there is provided one or more adjusting devices (11, 13) at one of and/or both of the long sides of the scraping device which push different parts of the scraping device towards or away from the conveyor belt (2).
- 17. A scraping device according to claim 16, character is ed in that the scraping face is directed towards the conveyor belt.
- 18. A scraping device according to claims 16-17,
- characterised in that the scraping device is provided with one or more adjusting devices for adapting the scraping device to the curve of the drum over which the conveyor belt runs.
 - 19. A scraping device according to claims 16-18, c h a r a c t e r i s e d i n that the scraping face (4) is reinforced in the connection between the supporting structure (3) and the scraping face (4).
 - 20. A scraping device according to claims 16-19, c h a r a c t e r i s e d i n that the scraping face (4) on each segment is connected to the supporting structure (3) by a resilient metal spring having a spring constant (k1).
- 25. A scraping device according to claims 16-20, c h a r a c t e r i s e d i n that the scraping face (4) on each segment is connected to the supporting structure (3) by a fibre-reinforced elastic material having spring constant (k1).
 - 22. A scraping device according to claims 16-21,
- 30 characterised in that the spring constant (k) is selected so that the scraper blades have an almost ideal angle of substantially 90 degrees to the conveyor belt that is to be cleaned.
 - 23. A scraping device according to claims 16-22, c h a r a c t e r i s e d i n that two or more of the segments (1') are connected transverse to the scraping device to a reinferior of the segments.
- transverse to the scraping device to a reinforcing element having a spring constant (k2).

22. Mai 2006 14:54

ONSAGERS AS +47 23327701

Nr. 6655 S. 5/7

10

- 24. A scraping device according to claims 16-23, c h a r a c t e r i s e d i n that the whole of or parts of the body (7) of the scraper segments (1) are formed of an elastic material so that it forms the elastic attachment for the scraping face.
- 5 25. A scraping device according to claims 16-24, character is ed in that the number of segments (1) is greater than five.
 - 26. A scraping device according to claims 16-24, c h a r a c t e r i s e d i n that the number of segments (1') is greater than eight.
- 27. A scraping device according to claims 16-24,
 c h a r a c t e r i s e d i n that the number of segments (1') is greater than twelve.
- 28. A scraping device according to one or more of claims 16-27, c h a r a c t e r i s e d i n that two or more of the segments (1') have different widths.
 - 29. A scraping device according to claims 16-28, c h a r a c t e r i s c d i n that the flexible material covering the scraper segments (1') is also an elastic material.
- 20 30. A scraping device according to claims 16-29, characterised in that the scraping face (4) is formed of or with a reinforcing material.
- 31. A scraping device for a conveyor belt (2) for installation essentially transverse to the longitudinal direction of the conveyor belt (2), which scraping device comprises a supporting structure (3) adapted to hold the scraping device in place across the conveyor belt (2), which scraping device is covering essentially the whole width of the conveyor belt (2) and consisting of a plurality of individual scraping segments (1') each of which consists of a body (7) with a scraping face (4), which scraping face (4) rests a minest the across the conveyor face.
- (4), which scraping face (4) rests against the conveyor belt (2) where the scraping device comprises a number of segments (1') and that the scraping face (4) on each of the segments (1') is elastically connected to the supporting structure (3) and all the segments are covered by a flexible material,
- characterised in that the scraping device is mounted in a holder (12) where at least an area of the scraping device is fixedly connected to the holder (12) with a fixed connection (17) so that the scraping device can be bent in that there is provided one or more adjusting devices (14, 15, 16) at the underside and/or the upper side of the scraping device which push different parts of the scraping device

at the EPO on Feb 13, 2006 16:27:34, Page 5 of 7

3. Feb. 2006 16:28

22. Mai 2006 14:54

5

10

25

ONSAGERS AS +47 23327701

Nr. 6655 S. 6/7

11

against the conveyor belt (2) and that at least a part of the scraping device can be bent towards or away from the conveyor belt in that there is provided one or more adjusting devices (11, 13) at one of and/or both of the long sides of the scraping device which push different parts of the scraping device towards or away from the conveyor belt (2).

- 32. A scraping device according to claim 31, characterised in that the scraping face is directed towards the conveyor belt.
- 33. A scraping device according to claims 31-32, c h a r a c t c r i s c d i n that the scraping device is provided with one or more adjusting devices for adapting the scraping device to the curve of the drum over which the conveyor belt runs.
- 15 34. A scraping device according to claims 31-33, characterised in that the scraping face (4) is reinforced in the connection between the supporting structure (3) and the scraping face (4).
- 25. A scraping device according to claims 31-34, c h a r a c t e r i s e d i n that the scraping face (4) on each segment is connected to the supporting structure (3) by a resilient metal spring having a spring constant (k1).
 - 36. A scraping device according to claims 31-35, c h a x a c t e x i s o d i n that the scraping face (4) on each segment is connected to the supporting structure (3) by a fibre-reinforced elastic material having spring constant-(k1).
 - 37. A scraping device according to claims 31-36, character is ed in that the spring constant (k) is selected so that the scraper blades have an almost ideal angle of substantially 90 degrees to the conveyor belt that is to be cleaned.
- 38. A scraping device according to claims 31-37, characterised in that two or more of the segments (1') are connected transverse to the scraping device to a reinforcing element having a spring constant (k2).
 - 39. A scraping device according to claims 31-38,
- 35 characterised in that the whole of or parts of the body (7) of the scraper segments (1) are formed of an elastic material so that it forms the elastic attachment for the scraping face.

at the EPO on Feb 13, 2006 16:27:34. Page 6 of 7

5

13. Feb. 2006 16:28

ONSAGERS AS +47 23327701

Nr. 6655 S. 7/7

12

- 40. A scraping device according to claims 31-39, character is ed in that the number of segments (1') is greater than five.
- 41. A scraping device according to claims 31-39, character is ed in that the number of segments (1') is greater than eight.
- 42. A scraping device according to claims 31-39, c h a r a c t e r i s e d i n that the number of segments (1') is greater than twelve.
- 43. A scraping device according to one or more of claims 31-42,
 10 characterised in that two or more of the segments (1') have different widths.
 - 44. A scraping device according to claims 31-43, character is ed in that the flexible material covering the scraper segments (1') is also an elastic material.
 - 45. A scraping device according to claims 31-44, characterised in that the scraping face (4) is formed of or with a reinforcing material.

20

15

25

30